

Figure 1 consists of 12 subplots, labeled (a) through (l), each showing a histogram of the number of non-zero elements in the vector x for a specific value of n . The subplots are arranged in a single vertical column. The x-axis for all plots is 'Number of non-zero elements' with tick marks at 0, 2, 4, 6, 8, 10, and 12. The y-axis is 'Frequency' with tick marks at 0, 2, 4, 6, 8, and 10. The histograms show a distribution that is roughly bell-shaped and centered around 6-7 non-zero elements. As n increases from 1 to 12, the distribution becomes slightly more spread out and the peak frequency decreases slightly.

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